









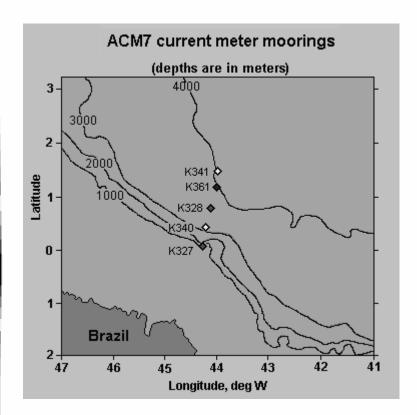


- Click "Back" until you get back to the OAR Ocean Currents Gather Data site.
- Click on the "WOCE 3" site.
- 3. Fill in the missing information in Chart 1 below.
- Click "Back" until you get back to the OAR Ocean Currents Gather Data site.
- Click on the "WOCE 4" site.
- 4. Fill in the missing information in Chart 1 below.
- Click "Back" until you get back to the OAR Ocean Currents Gather Data site.
- Click on the "WOCE 5" site.
- 5. Fill in the missing information in Chart 1 below.

Chart 1

| Mooring Name | K327 | K340 | K328 | K361 | K341 |
|--|------|------|------|------|------|
| Depth of Current Meter | | | | | |
| Sea Floor Depth | | | | | |
| Mean (average) Current Speed | | | | | |
| Mean Degrees of Current Direction | | | | | |
| Mean Compass Current Direction of current N, S, E, W | | | | | |
| Latitude/Longitude | | | | | |

- Use Chart 1 above and the map of the Brazilian coast below to help you do the following activities.
- 6. On the map below, draw arrows showing the direction of the current. The arrow heads should point in the direction the current flows <u>from</u> the station.



7. What is the relationship between seafloor depth and current speed?

8. Does the current seem to flow only along the shore, out to sea, or into the shore?



- Click "Back" until you get back to the OAR "Ocean Currents" Gather Data site.





- Click on the "Tropical Atmosphere Ocean Array 45 Meter" site.



- Look at the top graph.



1. What month has the greatest current speed? (Current speed is shown as centimeters per second on the vertical scale.)



2. What season shows the greatest current speed?



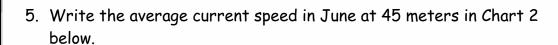
- Look at the bottom graph.



3. What season shows the least variation (change) in direction of current flow?



4. What is the compass direction of flow during this season?



- Write the number that best fits the graph during June. The graph will not be a straight line, so use a best estimate of the average directions and speeds.
- 6. Write the average current direction in June at 45 meters in Chart 2 below.



- Click "Back" to get back to the OAR Ocean Currents site.



Chart 2

| Depth | Average June Current Speed | Average June Current Direction | | |
|-------|-------------------------------|-----------------------------------|---------|--|
| | | degrees | compass | |
| 45 m | cm/sec | | | |
| 160 m | cm/sec | | | |
| 250 m | cm/sec | | | |

C. Open Ocean Current Speed and Direction at 160 meters



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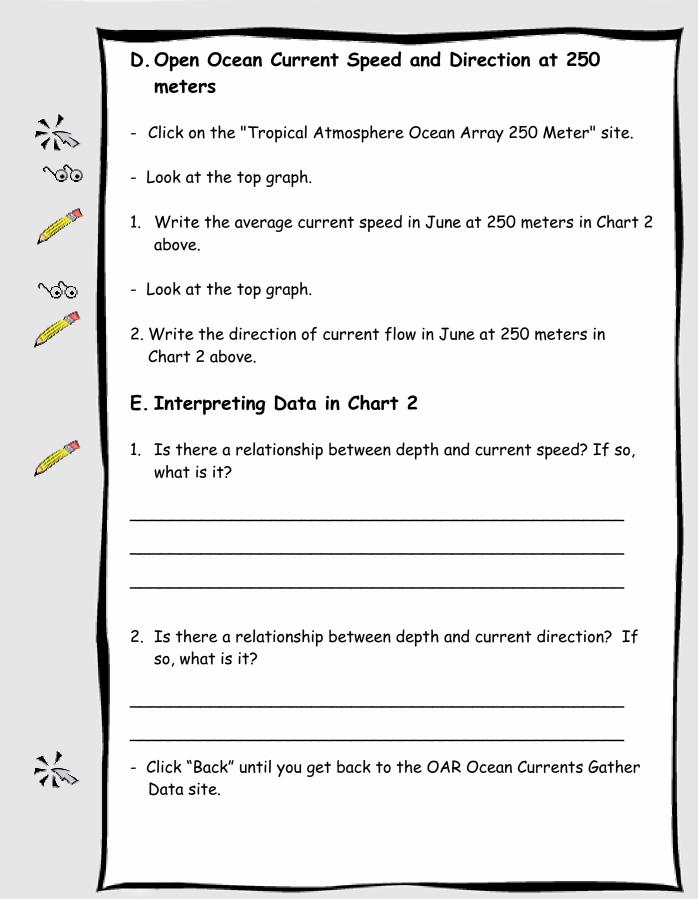


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- Click on the "Tropical Atmosphere Ocean Array 160 Meter" site.
- Look at the top graph.
- 1. Write the average current speed in June at 160 meters in Chart 2 above.
- Look at the bottom graph.
- 2. Write the direction of current flow in June at 160 meters in Chart 2 above.
- Click "Back" to get back to the OAR Ocean Currents site.













F. GPS Upgraded Drifters

- Click on the "Global Positioning Satellite Tracking" site.
- Scroll down to the second picture.
- Read the paragraph between the second and third pictures.
- 1. What advantage is there to running the drifter's transmitter more often?
- Click "Back" until you get back to the OAR Ocean Currents main screen.
- Click "Application".